

A BEARING CURRENT REDUCTION ASSEMBLY AND METHOD

ABSTRACT OF THE DISCLOSURE

5 An electric motor with an adjustable speed drive includes a bearing current reduction assembly including a charge concentrator providing a higher electric field concentration through a clearance between an inner bearing cap and a rotor shaft than occurs within a bearing. Accordingly, damaging rotor to ground currents through a bearing are reduced or eliminated. The charge concentrator is disposed on either the rotor shaft or the inner bearing cap, or both.